

## TUNABLE DISPERSION COMPENSATOR

### Abstract

A method and apparatus for implementing a new type of colorless Mach-Zehnder-interferometer (MZI)-based tunable dispersion compensator (TDC) that has only three MZI stages (two in a reflective version) and two adjustable couplers which are responsive to one control voltage, making it compact, low power, and simple to  
5 fabricate, test, and operate.